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A SYSTEMATIC CHECK LIST OF THE SPERMATOPHYTA OF THE BAAKENS RIVER VALLEY, PORT ELIZABETH

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ABSTRACT

The vegetation of the Baakens River Valley is briefly discussed. The 306 indigenous species recorded are listed in a systematic check list. Of the 77 Angiospermae families recorded, the Compositae (33 spp.), Liliaceae (19 spp.), Gramineae (16 spp.), Leguminosae (16 spp.) and Iridaceae (15 spp.) are those best represented. The Gymnospermae is represented by one species only. The total indigenous flora is threatened by alien species.

UITTREKSEL

'N SISTEMATIESE KONTROLELYS VAN DIE SPERMATOPHYTA VAN DIE BAAKENSRIVIERVALLEI, PORT ELIZABETH

Die plantegroei van die Baakensriviervallei word kortliks bespreek. Die 306 inheemse spesies wat aangeteken is, word weergegee in 'n sistematiese kontrolelys. Van die 77 Angiospermae families wat aangeteken is, is die volgende die beste verteenwoordig: Compositae (33 spp.), Liliaceae (19 spp.), Gramineae (16 spp.), Leguminosae (16 spp.) en Iridaceae (15 spp.). Die Gymnospermae word verteenwoordig deur slegs een spesie. Die totale inheemse flora word bedreig deur uitheemse spesies.

INTRODUCTION

The Baakens River is a short river, approximately 15 km long, starting in the Kabega Park area and winding its way in an easterly direction through Fairview, Sunridge Park, Fern Glen, Glen Hurd, Newton Park, Linkside, Mill Park and Walmer, through Settlers Park, reaching the sea in the harbour area (Fig. 1).

Interest was focused on the Baakens River Valley in 1959 when plans for a freeway were mooted. It was then realized that the valley was extremely rich in fauna and flora, with a unique position in an urban area.

Since then several abortive attempts were made to declare as a nature reserve the whole valley or at least the area between Frame's Drift and Target Kloof where two municipal reserves had already been in existence, one in the Linkside —Mill Park area and one in the Glen Hurd—Newton Park area.

The most recent attempt to safeguard the area was made in 1973 when negotiations were started to establish a botanic garden in the Sunridge Park—Fern Glen area.

As it is essential to have a reasonable knowledge of species occurring within a protected area, and as very little floristic data were available this survey was undertaken.

It deals with the area between Frame's Drift and Target Kloof.

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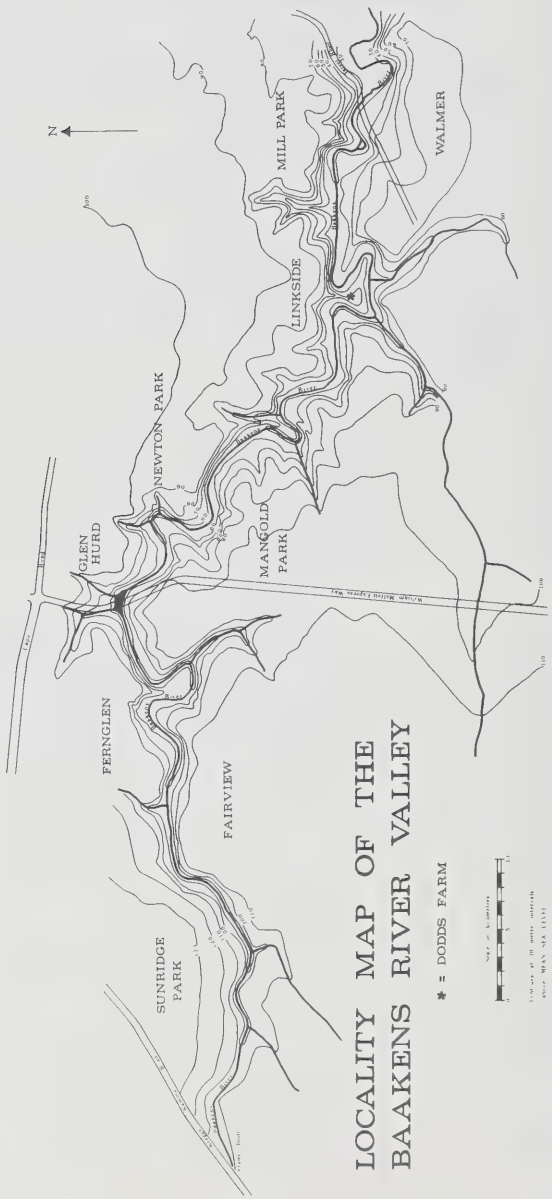

FIG. 1
Locality Map of the Baakens River Valley, Port Elizabeth

Methods

During the period 1974–1975 the area was visited at regular intervals and specimens were collected in triplicate. Two sets were sent to the Compton Herbarium, Kirstenbosch for identification. The third set is housed in the herbarium of the University of Port Elizabeth (PEU).

Results and Discussion

Vegetation

Two distinct vegetation types can be recognised in the area:

1. Forest and bush
2. Fynbos

1. Forest and bush

Forest areas are more or less restricted to the kloofs and south facing slopes and cliffs, the approximate height being 6–7 metres. In drier and more exposed habitats it merges into bush of an approximate height of 4 metres. Some 30 species which may by classified as trees or shrubs occur in these areas. *Ekebergia capensis*, *Olea capensis* subsp. *capensis*, *Pittosporum viridiflorum*, *Pterocelastrus tricuspidatus*, *Colpoon compressum*, *Hippobromus pauciflorus*, *Sideroxylon inerme*, *Tarchonantus camphoratus*, *Smelophyllum capense* and *Scutia myrtina* are of general occurrence.

2. Fynbos

This vegetation type is found on the open hillsides on the northern and southern sides of the valley, the north-facing areas being much drier than the south-facing. In these areas a large number of species belonging to the Liliaceae, Iridaceae, Orchidaceae, Leguminosae and Compositae were found. Proteads are represented by the following three species: *Protea neriifolia*, *Leucospermum cuneiforme* and *Leucadendron salignum* and the Ericaceae by five *Erica* spp., viz. *Erica cerinthoides*, *E. decipiens*, *E. glandulosa*, *E. pectinifolia* and *E. simulans*. On rocky outcrops the vegetation is open with a distinct succulent character.

Both these vegetation types are shrinking fast as the exotics advance and relatively few unspoilt areas remain. The least spoilt of the forest areas are those in the municpal reserves and an area below Sunridge Park where a community of *Podocarpus falcatus* survives. Beyond Fairview and Fern Glen undisturbed bush with numerous *Aloe pluridens* still exists. The best preserved fynbos area is west of the William Moffett Express Way, below Fern Glen.

Along its entire length, the river bed is inundated with aliens, the occasional tree (especially *Ekebergia capensis* and *Tarchonantus camphoratus*) still holding its own, whilst patches of *Phragmites australis* indicate the water course. Few permanent pools have remained; one at the end of Alcock Road, Walmer and another near Target Kloof bridge, being the only ones of considerable size.

Flora

The indigenous Angiospermae of the Baakens River Valley accounts for 77 families, 205 genera and 305 species. The Gymnospermae is represented by one species only. *Encephalartos horridus* which, until a few years ago, used to grow in the area, no longer occurs there.

Twenty-three alien species are recorded.

An analysis of the 77 Angiosperm families indicates that 12 (15,58%) are monocotyledons and 65 (84,42%) are dicotyledons. Of the Angiosperm species 77 (25,25%) are monocotyledons and 228 (74,75%) are dicotyledons. There are 21 (27,27%) families whose species contribute more than 1,5% of the total number of species and these are listed in order of numerical importance in Table 1. Thirty-one (40,26%) families are represented by one species only, 12 (15,58%) families are represented by two species, 7 (9,09%) by three species and 6 (7,79%) by four species.

TABLE 1:

Synopsis of the families whose species comprise more than 1,5% of the total number listed in order of numerical importance, together with the number of genera in each family.

Family	No. of species	No. of species expressed as a % of total	No. of genera	No. of genera expressed as a % of total
Compositae	33	10,82	23	11,22
Liliaceae	19	6,23	10	4,88
Gramineae	16	5,25	13	6,34
Leguminosae	16	5,25	10	4,88
Iridaceae	15	4,92	10	4,88
Aizoaceae	10	3,28	7	3,41
Anacardiaceae	10	3,28	1	0,49
Scrophulariaceae	10	3,28	9	4,39
Celastraceae	9	2,95	4	1,95
Crassulaceae	7	2,30	2	0,98
Campanulaceae	7	2,30	6	2,93
Amaryllidaceae	6	1,97	5	2,44
Orchidaceae	6	1,97	6	2,93
Ebenaceae	6	1,97	2	0,98
Cyperaceae	5	1,64	4	1,95
Geraniaceae	5	1,64	1	0,49
Rutaceae	5	1,64	3	1,46
Euphorbiaceae	5	1,64	2	0,98
Malvaceae	5	1,64	3	1,46
Thymelaeaceae	5	1,64	3	1,46
Ericaceae	5	1,64	1	0,49

SYSTEMATIC LIST

The systematic list is arranged according to Phillips (1951). (The numbers following the species names refer to the author's collecting numbers).

TAXACEAE

Podocarpus falcatus (Thunb.) R. Br. ex Mirb. 714 Sunridge Park, forest area, only known locality in valley

GRAMINEAE

Cymbopogon validus Stapf ex Burtt Davy 1200 Fern Glen, fynbos, common
Themeda triandra Forsk. 1199 Fern Glen, fynbos, common
Panicum deustum Thunb. 1311 Target Kloof area, near river, common
P. maximum Jacq. 978 Target Kloof area, near river, common
Digitaria eriantha Steud. 1312 Target Kloof area, near river, common
Setaria perennis Hack. 1183 Fern Glen, dry area of river bed, common
Stenotaphrum secundatum (Walt.) Kuntze 962 End of Alcock Road, Walmer, near river, common
Ehrharta calycina J. E. Sm. 1180 Fern Glen, dry area of river bed, common
Lagurus ovatus L. 1447 Below Fern Glen, in dry area of river bed, common
Cynodon dactylon (L.) Pers. All along river bed
Phragmites australis (Cav.) Trin. ex Steud. 1317 All along river bed
Eragrostis capensis (Thunb.) Trin. 1185 Fern Glen, dry area of river bed, common
E. curvula (Schrad.) Nees 1182 Fern Glen, Target Kloof area, near river, common
Briza maxima L. 1186 Fern Glen, dry area of river bed, common
B. minor L. 1184 Fern Glen, dry area of river bed, common
Lolium multiflorum Lam. 1453 Fairview, disturbed fynbos, common

CYPERACEAE

Cyperus textilis Thunb. 974 End of Alcock Road, Walmer, in river bed, common
Mariscus riparius Schrad. 1253 End of Janssens Avenue, Fern Glen, near river, only one plant seen
Ficinia deusta (Berg.) Levyns 1556 Fairview, fynbos, common
F. gracilis Schrad. 731 Sunridge Park, in wet fynbos areas
Tetraria eximia C.B.Cl. 1552 Fairview, restricted to one stand within a fynbos community

ARACEAE

Zantedeschia aethiopica (L.) Spreng. Target Kloof area, in river bed, fairly common

RESTIONACEAE

Elegia parviflora Kunth 1436 End of Janssens Avenue, Fern Glen, in damp fynbos area
E. vaginulata Mast. 1554 Fairview, fynbos, common
Thamnochortus glaber Pillans 701 Sunridge Park, in fynbos area, common

COMMELINACEAE

Commelina africana L. 1039 End of Mill Park Road, Mill Park, flowers yellow, forest margin
C. benghalensis L. 1035 End of Mill Park Road, Mill Park, flowers blue, forest margin

JUNCACEAE

Juncus (?) *oxycarpus* E. Mey. ex Kunth 1239 Fern Glen, in river bed

LILIACEAE

Wurmbea latifolia (Bak.) B. Nord. 875 Sunridge Park, fynbos area, uncommon
Bulbine caulescens L. 1017 End of Mill Park Road, Mill Park, on ridge
B. latifolia Roem. & Schult. 1157 Glen Hurd, in badly disturbed area

Trachyandra (?) sp. 873 Sunridge Park, fynbos area, fairly common
Kniphofia uvaria (L.) Hook. 1543 Sunridge Park, fynbos area, rare
Aloe africana Mill. Scattered along valley, in bush clumps
A. ferox Mill. Scattered along valley, in bush clumps
A. microcantha Haw. Sunridge Park, fynbos area, rare
A. pluridens Haw. Fern Glen, Fairview, in bush, common
Haworthia sp. 1319 Thomas Road, Walmer, on rocky outcrop, rare
Tulbaghia cepacea L.f. 1029 End of Mill Park Road, Mill Park, on ridge, common
Ornithogalum caudatum Jacq. 1158 Glen Hurd, in badly disturbed area, common
O. dubium Houtt. 834, 874, 1444 Sunridge Park, fynbos area, yellow flowers, uncommon
Veltheimia viridifolia Jacq. In bushy areas, all along valley, fairly common
Asparagus asparagoides (L.) Wight Target Kloof, forest
A. densiflorus (Kunth) Jessop 1540 Mill Park, forest margin
A. racemosus Willd. 1057 Target Kloof area, Glen Hurd, forest margin
A. stipulaceus Lam. 1558 Fairview, fynbos
A. suaveolens Burch. 1034 End of Mill Park Road, Mill Park, forest margin

HAEMODORACEAE

Wachendorfia paniculata L. 836 Sunridge Park, fynbos area, uncommon

AMARYLLIDACEAE

Haemanthus magnificus Herb. Target Kloof area, forest, rare
Brunsvigia orientalis (L.) Ait. ex Eckl. Sunridge Park, fynbos, rare
Cyrtanthus clavatus (L'Hérit.) R. A. Dyer 1551 Fairview, fynbos, rare
C. obliquus (L.f.) Ait. Fairview, fynbos, uncommon
Hypoxis sp. 1272 Fairview, fynbos, rare
Spiloxene trifurcillata (Nel) Fourc. 1038 End of Mill Park Road, Mill Park on ridge, fairly common

DIOSCOREACEAE

Dioscorea (?) *cotonifolia* Kunth 1318 Target Kloof area, forest, uncommon
D. sylvatica (Kunth) Eckl. 983 Target Kloof area, forest, uncommon

IRIDACEAE

Romulea longipes Schlechtd. 831 Sunridge Park, fynbos area, uncommon
Moraea stewartae N. E. Br. 712 Sunridge Park, fynbos area, uncommon
Bobartia orientalis J. B. Gillet 883 Sunridge Park, abundant in burnt fynbos areas
Aristea anceps Eckl. 1271 Fairview, fynbos, rare
A. pusilla (Thunb.) Ker-Gawl. Sunridge Park, fynbos area, rare
Geissorhiza rosea (Klatt) Fost. Sunridge Park, fynbos area, uncommon
Ixia lineata Ker-Gawl. 833 Sunridge Park, fynbos area, rare
I. orientalis L. Bol. 730 Sunridge Park, fynbos area, rare
Babiana patersoniae L. Bol. Fern Glen, abundant on flat fynbos areas
Gladiolus liliaceus Houtt. 835 Sunridge Park, Glen Hurd, fynbos areas
G. mutabilis G. J. Lewis 700 Sunridge Park, fynbos area, rare
G. permeabilis Delaroche subsp. *permeabilis* 1264 Fairview, fynbos, rare
Anapalina intermedia (Bak.) G. J. Lewis 1102 Mangold Park, fynbos area, rare
A. nervosa (Thunb.) G. J. Lewis 954 Sunridge Park, Mill Park, Fairview, fynbos areas, fairly common
Watsonia pillansii L. Bol. 953 All along valley in fynbos areas, common

ORCHIDACEAE

Holothrix lindleyana Reichb. f. 1160 Glen Hurd, in bush clump on rocky outcrop, rare
Bartholina lindleyana Reichb. f. 721 Sunridge Park, very localised, only in areas where it is very wet in winter and dry in summer, rare

Satyrium maculatum Burch. ex Lindl. 1275 Fairview, fynbos, rare
Schizodium rigidum Lindl. 1341 Target Kloof area, rare
Herschelia lugens (H. Bol.) Kraenzl. 993 Sunridge Park, fynbos area, rare
Disperis capensis (L.) Swartz 720 Sunridge Park in fynbos areas where it is very wet in winter and dry in summer, rare

MYRICACEAE

Myrica quercifolia L. 1229 Fern Glen, fynbos area, common
M. serrata Lam. Sunridge Park, fynbos area, uncommon

MORACEAE

Ficus burtt-davyi Hutch. 1049 Scattered along the valley on krantzes

PROTEACEAE

Protea neriifolia R. Br. 1114 All along river in fynbos areas
Leucospermum cuneiforme (Burm. f.) Rourke 774 Widespread in fynbos areas
Leucadendron salignum Berg. 703 Widespread in fynbos areas

LORANTHACEAE

Viscum capense L.f. 1203 Fern Glen, bush, fairly common
V. rotundifolium L.f. 451 Target Kloof area, forest, fairly common

SANTALACEAE

Colpoon compressum Berg. 976 Common all along valley in bushy areas
Rhoiacarpos capensis (Harv.) A.DC. 1187 Fern Glen, in bush clumps, uncommon
Thesium junceum Bernh. 1116 Fern Glen, fynbos area, uncommon
T. subnudum Sond. 776 Sunridge Park, fynbos area, uncommon

POLYGONACEAE

Rumex sagittatus Thunb. 1230 In river bed near William Moffett Express Way, common
Polygonum acuminatum Meisn. var. *capense* Meisn. 984 Target Kloof area, in river bed, common

CHENOPODIACEAE

Exomis microphylla (Thunb.) Aellen var. *axyrioides* (Fenzl et Moq.) Aellen 1463 All along valley in disturbed areas

PHYTOLACCACEAE

Phytolacca octandra L. 1201 Fern Glen, in bush clumps, uncommon

AIZOACEAE

Galenia pubescens (Eckl. & Zeyh.) Druce 1542 Mill Park, forest margin, uncommon
G. secunda (L.f.) Sond. 1548 Sunridge Park, fynbos, uncommon
Carpobrotus deliciosus (L. Bol.) L. Bol. Common in open areas
C. edulis (L.) N.E. Br. Common in open areas
Mesembryanthemum aitonis Jacq. 1220 Fern Glen, disturbed area in river bed
Ruschia rigida (Haw.) Schwant. 1298 Fairview near Frame's Drift
R. tenella (Haw.) Schwant. 987 Target Kloof area, near river, common
Delosperma lehmannii (Eckl. & Zeyh.) Schwant. 1238, 1538 Thomas Road, Walmer, on rocky outcrop, common
Drosanthemum sp. 1533 Below Mill Park, forest margin, common
Lampranthus productus N. E. Br. 988 Target Kloof area, near river, common

CARYOPHYLLACEAE

Pollichia campestris Ait. 448 Target Kloof area, forest, uncommon
Silene undulata Ait. 1241 Fern Glen, near river bed, uncommon

NYMPHAEACEAE

Nymphaea capensis Thunb. Target Kloof area, in pools, common

RANUNCULACEAE

Clematis brachiata Thunb. 326 End of Alcock Road, Walmer, near river bed, uncommon

MENISPERMACEAE

Antizoma capensis (L.f.) Diels 1058 Dodd's Farm, in bush clumps, uncommon

CRUCIFERAE

Heliophila sp. 1112 Mangold Park, fynbos, rare

CAPPARIDACEAE

Maerua cafra (DC.) Pax 1438 Fern Glen, in bush clump, uncommon

DROSERACEAE

Drosera cistiflora L. Sunridge Park, Fern Glen, in damp fynbos areas, common

CRASSULACEAE

Cotyledon salmiana V. Poelln. 1465 Walmer, Mill Park, Fern Glen, on rocky outcrops, common
Crassula cultrata L. 1293 Fairview near Frame's Drift, dry fynbos, common
C. lycopodioides Lam. 1007 End of Mill Park Road, forest margin, uncommon
C. marginalis Soland. 1159 Glen Hurd in badly disturbed area, common
C. perforata L. 1015 End of Mill Park Road, Mill Park, Fairview near Frame's Drift, rocky outcrops, common
C. rubricaulis Eckl. & Zeyh. 1323 Thomas Road, Walmer, on rocky outcrop, common
C. tetragona L. 1291 Fairview, near Frame's Drift, dry fynbos, common

SAXIFRAGACEAE

Montinia caryophyllacea Thunb. 735 Sunridge Park, fynbos area, very common

PITTOSPORACEAE

Pittosporum viridiflorum Sims 1098 Scattered all along valley, in forest areas

ROSACEAE

Rubus rigidus Smith 957 Common along river bed
Cliffortia ferruginea L.f. 1437 End of Janssens Avenue, Fern Glen, in damp fynbos area, uncommon
C. ilicifolia L. 704 Sunridge Park, fynbos area, common
C. odorata L.f. 510, 981 Target Kloof area, near river bed, common

LEGUMINOSAE

Acacia karroo Hayne 1274 Fairview, bush clumps, uncommon
Schotia afra (L.) Thunb. var. *afra* Dodd's Farm, bush clumps, uncommon
S. latifolia Jacq. 1109 Mangold Park, forest area, uncommon
Podalyria cuneifolia Vent. 1205 Fern Glen, Sunridge Park near Stella Londt Convalescent Home, fynbos, uncommon

Rafnia elliptica Thunb. 1263 Fairview, in very sandy soil, bush margin, uncommon
Lotononis azurea (Eckl. & Zeyh.) Benth. 1099 Mangold Park, Glen Hurd, fynbos areas, uncommon
Aspalathus chortophila Eckl. & Zeyh. subsp. *chortophila* 1030 Mill Park, Fern Glen, Fairview, fynbos, common
A. collina Eckl. & Zeyh. subsp. *collina* 702 Sunridge Park, fynbos area, common
A. hispida Thunb. subsp. *albiflora* (Eckl. & Zeyh.) R. Dahlgr. 1446 Fern Glen, dry area of river bed, fairly common
A. rubens Thunb. 1231 Fairview, very dry northern aspect, fairly common
A. setacea Eckl. & Zeyh. 1296 Fairview near Frame's Drift, disturbed fynbos, uncommon
A. spinosa L. subsp. *spinosa* 1246 Fern Glen, fynbos, uncommon
Crotalaria capensis Jacq. 970 Target Kloof area, Fern Glen, edge of river bed, common
Indigofera sulcata DC. 777 Sunridge Park, fynbos area, common
Rhynchosia caribaea (Jacq.) DC. 443 Target Kloof area, forest, fairly common
Dipogon lignosus (L) Verdc. 1217 Fern Glen, southern aspect, in bush, common

GERANIACEAE

Pelargonium alchemilloides (L.) L'Hérit. ex Ait. 1245 Fairview, near river, common
P. longifolium Jacq. 1451 Glen Hurd, fynbos, rare
P. peltatum (L.) L'Hérit. 1224 Fern Glen, in bush clumps, common
P. populifolium Eckl. & Zeyh. 1228 Fern Glen, near river, common
P. reniforme Curtis 1244 Fairview, fynbos, common

OXALIDACEAE

Oxalis smithiana Eckl. & Zeyh. 1037 End of Mill Park Road, Mill Park, forest margin, fairly common

ZYGOPHYLLACEAE

Zygophyllum fulvum L. 1068 Dodd's Farm, uncommon

RUTACEAE

Fagara capensis Thunb. 1178 Fern Glen, bush, uncommon
F. davyi Verdoorn 1067 Dodd's Farm, bush, uncommon
Agathosma gonaquensis Eckl. & Zeyh. 1028 End of Mill Park Road, Mill Park, forest margin, common
A. ovata (Thunb.) Pillans 1076 Target Kloof area, Mangold Park, forest margin, common
Vepris undulata (Thunb.) Verdoorn ex C.A. Sm. Dodd's Farm, forest, uncommon

MELIACEAE

Ekebergia capensis Sparrm. 1101 Fairly common along valley in forest areas

POLYGALACEAE

Polygala ericaefolia DC. 778 Sunridge Park, fynbos area, common
P. fruticosa Berg. 1176 Fern Glen, Fairview, fynbos, fairly common
Muraltia alopecuroides (L.) DC. 780 Sunridge Park, fynbos area, uncommon
Nylandtia spinosa (L.) Dumort. 447 End of Alcock Road, Walmer and Fern Glen, common on dry areas of river bed

EUPHORBIACEAE

Clutia brevifolia Sond. 710 Sunridge Park, fynbos area, common
C. rubricaulis Eckl. ex Sond. 715 Fairview, fynbos, common
Euphorbia clava Jacq. Fairview, dry northern aspect, rare
E. polygona Haw. 1320 Thomas Road, Walmer, rocky outcrop, rare
E. silenifolia (Haw.) Sweet 1614 Fern Glen, fynbos, rare

ANACARDIACEAE

Rhus incisa L.f. var. *obovata* (Sond.) Schoenl. 1188 Fern Glen, bush, fairly common
R. laevigata L. (= *R. mucronata* Thunb.) 1287 Fairview near Frame's Drift, uncommon
R. longispina Eckl. & Zeyh. 985 Target Kloof area, forest margin, fairly common
R. lucida L. 1062 Dodd's Farm, bush clump, uncommon
R. lucida var. *scoparia* (Eckl. & Zeyh.) Schoenl. 1443 Sunridge Park, bush clump, uncommon
R. macowanii Schoenl. 958 Target Kloof area, forest margin, fairly common
R. rosmarinifolia Vahl 736 Sunridge Park, fynbos area, common
R. schlechteri Diels 1142 Glen Hurd, Fern Glen, bush clumps, common
R. tomentosa L. 1108 Mangold Park, Glen Hurd, Fairview, bush clumps, very common
R. undulata Jacq. var. *undulata* 1107 Mangold Park, Glen Hurd, bush clumps, common

CELASTRACEAE

Maytenus acuminata (L.f.) Loes. 1027 Mill Park, forest areas, uncommon
M. heterophylla (Eckl. & Zeyh.) N. K. B. Robson 990 Target Kloof area, Fern Glen, forest, fairly common
M. nemorosa (Eckl. & Zeyh.) Marais 991 Target Kloof area, forest, uncommon
Putterlickia pyracantha (L.) Szyszyl. 1050 Target Kloof area, Fern Glen, bush clump, uncommon
Pterocelastrus tricuspidatus (Lam.) Sond. 327 Common all along valley in forest areas and bush clumps
Cassine aethiopica Thunb. 1055 Target Kloof area, forest, fairly common
C. maritima (H. Bol.) L. Bol. 1059 End of Thomas Road, Walmer, on krantz, uncommon
C. peragua L. 1065 Dodd's Farm, forest, uncommon
C. tetragona (L.f.) Loes. 1056 Target Kloof area, Fern Glen, forest, fairly common

ICACINACEAE

Apodytes dimidiata E. Mey. ex Arn. 1053 Dodd's Farm, forest, uncommon

SAPINDACEAE

Allophylus decipiens (Sond.) Radlk. 965 Scattered along valley in bush clumps
Smelophyllum capense (Sond.) Radlk. 1072 Common along valley on krantzes
Hippobromus pauciflorus (L.f.) Radlk. 1115 Very common all along valley in forest areas and bush clumps

RHAMNACEAE

Scutia myrtina (Burm. f.) Kurz 961 Common all along valley
Phylica gnidioides Eckl. & Zeyh. 1066 Dodd's Farm, fynbos area, fairly common
P. willdenowiana Eckl. & Zeyh. 1439 Glen Hurd, fynbos, fairly common

VITACEAE

Rhoicissus tridentata (L.f.) Wild & Drummond 1196 Fern Glen, in bush clumps, fairly common

TILIACEAE

Grewia occidentalis L. 992 Fairly common all along valley in bush clumps

MALVACEAE

Abutilon sonneratianum (Cav.) Sweet 479 Target Kloof area, near river, uncommon
Anisodontea scabrosa (L.) Bates 444 Target Kloof area, near river, uncommon
Hibiscus aethiopicus L. 629 Sunridge Park, fynbos, uncommon
H. aethiopicus L. var. *diversifolius* Harv. 1550 Fairview, burnt fynbos, common
H. trionum L. 328 Target Kloof area, Fern Glen, near river bed, uncommon

STERCULIACEAE

Hermannia althaeoides Link 477 Target Kloof area, near river bed, uncommon
H. hyssopifolia L. 476 Sunridge Park, near river bed, fairly common
H. sulcata Harv. 1105 Mangold Park, fynbos, uncommon
H. velutina DC. 445 Target Kloof area, near river bed, fairly common

OCHNACEAE

Ochna arborea Burch. ex DC. 516 Target Kloof area, Fairview, forest and bush clumps, uncommon

GUTTIFERAE

Hypericum (?) *aethiopicum* Thunb. 1248 Fern Glen, fynbos, rare

OLINIACEAE

Olinia ventosa (L.) Cufod. 1036 Common all along the valley in forest areas

THYMELAEACEAE

Gnidia styphelioides Meisn. 734 Sunridge Park, fynbos area, common
Struthiola argentea Lehm. 1103 Mangold Park, fynbos area, uncommon
S. macowanii C.H. Wr. 706 Sunridge Park, fynbos area, fairly common
S. parviflora Bartl. ex Meisn. 779 Sunridge Park, fynbos area, uncommon
Passerina vulgaris Thoday 1197 Fern Glen, bush clumps, fairly common

MYRTACEAE

Eugenia zeyheri Harv. 1435 Sunridge Park, forest area, uncommon

ARALIACEAE

Cussonia spicata Thunb. 1151 Glen Hurd, forest, rare, one single plant seen
C. thyrsiflora Thunb. 1155 Common in bushy areas

UMBELLIFERAE

Centella coriacea Nannfd. 1289 Fairview, near Frame's Drift, in river bed
Heteromorpha arborescens (Spreng.) Cham. & Schlechtd. 966 Target Kloof area, near river bed, uncommon
Annesorrhiza macrocarpa Eckl. & Zeyh. 1295 Fairview, near Frame's Drift, rare

ERICACEAE

Erica cerinthoides L. 711 Very common in burnt fynbos areas
E. decipiens Spreng.f. 1288 Fairview near Frame's Drift, fynbos, uncommon
E. glandulosa Thunb. 1255 Fern Glen, fynbos area, uncommon
E. pectinifolia Salisb. 1546 Sunridge Park, fynbos area, rare
E. simulans Dulfer 699 Sunridge Park, fynbos area, fairly common

MYRSINACEAE

Rapanea gilliana (Sond.) Mez 1232 Fern Glen, forest margin, uncommon
R. melanophloeos (L.) Mez 1025 Mill Park, Fern Glen, forest areas, uncommon

SAPOTACEAE

Sideroxylon inerme L. 1433 All along valley in forest areas, common

EBENACEAE

Euclea polyandra (L.f.) E. Mey. ex Hiern 1192 Fern Glen, fynbos, common
E. racemosa Murr. (?) forma 1100 Mangold Park, bush clump, uncommon

Euclea racemosa Murr. or *E. schimperi* (A.DC.) Dandy 973 Target Kloof area, forest margin
E. undulata Thunb. var. *undulata* 1221 Fern Glen, bush clumps, common
Diospyros dichrophylla (Gand.) de Winter 960 Target Kloof, common in bush clumps
D. scabrida (Harv. ex Hiern) de Winter var. *cordata* (E. Mey. ex A.DC.) de Winter 1233 Fairview, very dry northern aspect, plants very stunted, uncommon

OLEACEAE

Olea africana Mill. Forest areas, uncommon
O. capensis L. subsp. *capensis* 1143 Common along valley in forest areas
O. exasperata Jacq. 1156 Glen Hurd, in disturbed area
Jasminum angulare Vahl 1278 Fairview, bush clumps, common

SALVADORACEAE

Azima tetracantha Lam. Fern Glen, in bush clump, uncommon

GENTIANACEAE

Chironia baccifera L. 1052 Dodd's Farm, fynbos, fairly common
C. penduncularis Lindl. 1214 Fern Glen, fynbos, uncommon
C. tetragona L.f. 1268 Fairview, fynbos, uncommon

APOCYNACEAE

Carissa bispinosa (L.) Desf. ex Brenan var. *bispinosa* 471 Target Kloof area, Fern Glen, forest, fairly common

ASCLEPIADACEAE

Microloma tenuifolium K. Schum. 719 Sunridge Park, fynbos area, fairly common
Cynanchum obtusifolium L.f. 450 Target Kloof area, forest, common
Sarcostemma viminale (L.) R. Br. 1191 Fern Glen, in bush clumps, common
Secamone alpini Schultes 1541 Below Mill Park, forest margin, fairly common

CONVOLVULACEAE

Cuscuta cassytoides Nees ex Engelm. Sunridge Park, fynbos area, common

BORAGINACEAE

Ehretia rigida (Thunb.) Druce 1208 Fern Glen, stunted, in bush clump, uncommon
Lobostemon trigonus Buek 775 Common in fynbos areas, flowers blue, common

LABIATAE

Leonotis sp. 1266 Fairview, near river bed, uncommon
Salvia aurea L. 1173 Fern Glen, near river bed, fairly common

SOLANACEAE

Lycium sp. 1441 Sunridge Park, bush clump, uncommon
Solanum tomentosum L. 1075 Target Kloof area, near river bed, uncommon

SCROPHULARIACEAE

Nemesia affinis Benth. 442 End of Alcock Road, Walmer, disturbed area of river bed, uncommon
Halleria lucida L. 1250 Fern Glen, stunted, bush, uncommon
Manulea obovata Benth. 472 End of Alcock Road, Walmer on disturbed area of river bed, common
M. parviflora Benth. 1265 Fairview, disturbed area

Sutera argentea (L.f.) Hiern 1211 Fern Glen, white flowers, fynbos, uncommon
Selago glomerata Thunb. 1032 Mill Park, fynbos, common
Walafrida nitida E. Mey. 1033 Mill Park, fynbos, common
Graderia scabra (L.f.) Benth. 1547 Common in burnt fynbos areas
Harveya purpurea Harv. 882 Sunridge Park, pink flowers, fynbos, uncommon
Hyobanche sanguinea L. 1218 Fern Glen, Fairview, fynbos, uncommon

BIGNONIACEAE

Tecomaria capensis (Thunb.) Spach 986 Target Kloof area, garden escape?

ACANTHACEAE

Blepharis procumbens (L.f.) Pers. 1269 Fairview on very dry slope, blue flowers, rare
Hypoestes aristata R. Br. 1078 End of Alcock Road, Walmer, near river bed, common

RUBIACEAE

Canthium spinosum (Klotzsch) Kuntze 1179 Fern Glen, bush clump, uncommon
C. ventosum (L.) S. Moore 716 Wide spread in forest areas
Anthospermum aethiopicum L. 1148 Glen Hurd, Sunridge Park, fynbos areas, common

DIPSACACEAE

Scabiosa columbaria L. 1219 Fern Glen, Sunridge Park, fynbos areas, uncommon

CUCURBITACEAE

Zehneria scabra (L.f.) Sond. 1209 Fern Glen, bush clump, uncommon

CAMPANULACEAE

Roella spicata L. 955, 1031 Sunridge Park, Mill Park, fynbos, uncommon
Prismatocarpus campanuloides (L.f.) Sond. 1557 Fairview, fynbos, uncommon
Wahlenbergia undulata A.DC. 1286 Fairview, near Frame's Drift, fynbos, uncommon
Lightfootia divaricata Buek var. *debilis* (Sond.) Adamson 1213 Fern Glen, fynbos, fairly common
Cyphia sylvatica Eckl. 1021 Mill Park, fynbos, uncommon
Lobelia erinus L. 1226 Fern Glen, southern aspect, fairly common
L. tomentosa L. 732 Sunridge Park, fynbos area, common

COMPOSITAE

Corymbium africanum L. 885 Sunridge Park, fynbos area, uncommon
C. glabrum L. 1442 Sunridge Park, fynbos area, uncommon
Pteronia baccharoides Less. 707 Sunridge Park, fynbos area, common
Felicia erigeroides DC. 1070 Target Kloof area, near river, uncommon
Conyza ivifolia (L.) Less. 980 Target Kloof area, in river bed, common
Tarchonanthus camphoratus L. 971 Widespread along valley in forest areas
Helichrysum anomalum Less. 705 Sunridge Park, fynbos area, common
H. argenteum Thunb. 709 Sunridge Park, fynbos area, common
H. felinum (Thunb.) Less. 1204 Fern Glen, fynbos, fairly common
H. metalasioides DC. 1445 Fern Glen, dry area of river bed, fairly common
H. squamosum Thunb. 1545 Sunridge Park, fynbos area, rare
H. teretifolium (L.) D.Don 1222 Fairview, fynbos, fairly common
Disparago ericoides Gaertn. 708 Sunridge Park, fynbos area, common
Metalasia muricata (L.) D.Don 1553 Fynbos areas, common
Relhania trinervis Thunb. 886 Sunridge Park, fynbos area, fairly common
Athrixia crinata (L.) Druce 733 Sunridge Park, fynbos area, uncommon
Printzia bergii Cass. 1147 Glen Hurd, Fern Glen, badly disturbed areas, fairly common
Eriocephalus africanus L. 1063 Dodd's farm, very common in drier habitats

Athanasia dentata L. 884, 1202 Sunridge Park, Fern Glen, fynbos, common
Cineraria sp. 1216 Fern Glen, fynbos, fairly common
Senecio ilicifolius Thunb. 1223 Fern Glen, very abundant in disturbed areas
S. reclinatus L.f. 1252 Fern Glen, fynbos, uncommon
S. tamoides DC. 1457 Below Mill Park, in forest, garden escape?
Eurypos algoënsis DC. 1064 Dodd's Farm, fynbos, fairly common
E. munitus (L.f.) B. Nordenstam 1024 Mill Park, fynbos, fairly common
Othonna carnosa Less. 1016 Mill Park, on ridge, fairly common
Osteospermum junceum Berg. 1227 In river bed near William Moffett Express Way
Chrysanthemoides monilifera (L.) Norl. 1097 Common throughout valley
Arctotheca calendula (L.) Levyns 1172 Fern Glen in river bed, common
Gazania linearis (Thunb.) Druce 628 Sunridge Park, fynbos, fairly common
Berkheya angustifolia (Houtt.) Merrill 1113 Mangold Park, Glen Hurd, disturbed area
B. heterophylla (Thunb.) O. Hoffm. var. *radiata* (DC.) Roessl. 977 Target Kloof area near river bed, fairly common
Sonchus dregeanus DC. 1225 Fern Glen, near river bed, common

ALIEN SPECIES

PINACEAE
Pinus halepensis Mill. 1026 Occasional trees scattered along valley

GRAMINEAE
Pennisetum clandestinum Hochst. ex Chiov. All along valley escaping from gardens
Avena fatua L. 1243 Fairview, disturbed fynbos, common
Bromus willdenowii Kunth 1181 Fern Glen, dry area of river bed, common

SALICACEAE
Populus sp. 1432 Very abundant in kloof between Sunridge Park and Fern Glen and spreading down river more or less to an area opposite Janssens Avenue

PROTEACEAE
Hakea suaveolens R. Br. 1431 Worst infestations in fynbos areas west of Dodd's Farm on northern bank

FUMARIACEAE
Fumaria muralis Sond. ex Koch 781 Disturbed fynbos areas

LEGUMINOSAE
Albizia lophantha (Willd.) Benth. 1434 In kloof between Sunridge Park and Fern Glen
Acacia cyclops Cunn. 1340 Scattered along valley
A. decurrens (Wendl.) Willd. 1337 Occasional trees scattered along valley, more abundant near Frame's Drift
A. longifolia (Andr.) Willd. 713 Very abundant especially Sunridge Park area forming dense stands in fynbos
A. saligna (Labill.) Wendl. 1338 All along valley, in fynbos, dense stands east of William Moffett Express Way, on northern bank
Sesbania punicea (Cav.) Benth. 1450 All along river bed, worst infestations east of Dodd's Farm, spreading fast

EUPHORBIACEAE
Ricinus communis L. Isolated plants along valley

CACTACEAE

Opuntia sp. Isolated plants

GUTTIFERAE

Hypericum sp. 1458 Below Mill Park, isolated plants on forest margin

MYRTACEAE

Eucalyptus lehmanii (Preiss ex Schau.) Benth. 1454 Occasional trees along valley
Eucalyptus sp. Very abundant near Frame's Drift and in river bed below Glen Hurd
Leptospermum laevigatum F. Muell. 1174 Scattered along valley

UMBELLIFERAE

Foeniculum vulgare Mill. 972 All along valley

SOLANACEAE

Cestrum laevigatum Schltr. 1448 Isolated plants along valley

PLANTAGINACEAE

Plantago lanceolata L. 1254 In disturbed areas

COMPOSITAE

Xanthium strumarium L. 1316 End of Alcock Road, Walmer, dry areas of river bed

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